AMENDMENTS TO THE CLAIMS

  This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

  1. (currently amended): A processing server for allocating to user terminals

resources of a local area network, said server ~~adapted to be~~ connected to at least one local area

network access point, said server comprising:

  a control ~~means~~ module, which ~~adapted to~~:

  ~~classify~~ classifies the terminals into a first group or a second group according to whether

or not ~~they~~ the terminals establish an encrypted communication with said local area network; and

  ~~allocate~~ allocates resources of said local area network to the terminals attempting to

establish communication ~~therewith~~ with said local area network as a function of whether ~~they~~ the

terminals are classified in said first group or said second ~~group.~~group,

  wherein said control module allocates at least two priority levels to the terminals for said

allocation of resources of the local area network according to whether the terminals are classified

in said first group or said second group and automatically modifies an allocated priority level as

a function of the available resources of said local area network.

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2.   (currently amended): The server according to claim 1, wherein said control

~~means~~module ~~are adapted to~~ determine<u>s</u> a MAC address of each of said terminals attempting to

establish communication with said local area network; and

said processing server further comprises means for allocating an IP address to each of

said terminals attempting to establish communication with said local area network, and having

the MAC address determined by said control ~~means~~module.

3.   (previously presented) The server according to claim 2, wherein said allocation

means are of the DHCP type.

4.   (currently amended): The server according to claim 2, further comprising a

memory for storing a table containing primary MAC addresses associated with <u>said</u> first

terminals of said terminals, said first terminals ~~adapted to~~ exchange data frames encrypted in

accordance with at least one format.

5.   (currently amended): The server according to claim 4, wherein said table contains

secondary MAC addresses associated with second terminals of said terminals, said second

terminals ~~adapted to~~ exchange unencrypted data frames.

6.   (currently amended): The server according to claim 5, wherein:

said control ~~means~~module ~~are adapted to make a determination as to~~ determines whether

an extracted MAC address, extracted from a received frame, is one of said primary or secondary

MAC addresses and,

if said determination is affirmative, <u>said control module</u> ~~to~~ send<u>s</u> the allocation means a

request to allocate a primary IP address to ~~the~~ <u>a</u> terminal corresponding to said extracted MAC

address, ~~so that~~<u>to allow</u> said terminal <u>corresponding to said extracted MAC address</u> ~~can~~ <u>to</u> set up

a link with at least one first remote network and one second remote network and,

if said determination is negative, <u>said control module</u> ~~to~~ send<u>s</u> the allocation means a

request to allocate a secondary IP address to the terminal corresponding to said extracted MAC

address, referred to as a third terminal, ~~so that~~ <u>to allow</u> said third terminal ~~can~~ <u>to</u> set up a

connection with at least one second remote network.

7.   (currently amended): The server according to claim [[4]]<u>6</u>, characterized in that

said first terminals are associated with said <u>at least one</u> first remote network.

8.   (currently amended): The server according to claim ~~7~~<u>6</u>, characterized in that said

second terminals belong to known users of said <u>at least one</u> first remote network.

9.   (previously presented) The server according to claim 6, wherein:

each first remote network is selected from a group comprising private networks, IP data networks, and public switched telephone networks; and

each second remote network is selected from a group comprising IP data networks and public switched telephone networks.

10.   (canceled).

11.   (currently amended): The server according to claim ~~10~~1, wherein the <u>primary</u> MAC addresses <u>and the secondary MAC addresses</u> in said table are stored in corresponding relationship to at least one of said priority levels.

12.   (currently amended): The server according to claim 11, wherein said priority levels comprise:

at least one first priority level allocated to <u>said</u> first terminals associated with primary MAC addresses; and

one second priority level allocated to <u>said</u> second terminals associated with secondary MAC addresses.

13.   (currently amended): The server according to claim 12, wherein said control

~~means~~ module ~~are adapted to~~ allocate<u>s</u> a third priority level for allocation of resources of the

local area network to said third ~~terminals~~ <u>terminal</u> setting up communications not encrypted in

accordance with said at least one format and whose MAC addresses are not in said table.

14.   (previously presented) The server according to claim 11, wherein said priority

levels apply at least to a bandwidth, and said bandwidth decreases from the first level to the third

level.

15.   (currently amended): The server according to claim 14, wherein said control

~~means~~ module sends said access point data representative of said bandwidth assigned to a

designated terminal, and said access point allocates ~~the~~ corresponding resources to said

designated terminal.

16.   (canceled).

17.   (currently amended): The server according to claim 1, said server ~~adapted to be~~<u>is</u>

connected to said local area network by a cable connection.

18.   (previously presented) The server according to claim 17, said cable connection
being an Ethernet link.

19.   (currently amended): The server according to claim 1, said server ~~adapted to be~~is
connected to said local area network by a radio link.

20.   (previously presented) The server according to claim 19, wherein said radio link
is a 802.11b radio link.

21.   (previously presented) A router, including a processing server according to claim
1.

22.   (previously presented) A local area network access point, including a processing
server according to claim 1.

23.   (previously presented) A communication installation comprising:

at least one local area network accessible via at least one access point;

at least one first remote network;

at least one second remote network; and

a processing server according to claim 1, which is connected to said access point and said

first and second remote networks.

24.   (previously presented) An installation according to claim 23, wherein said local

area network is a wireless local area network.

25.   (previously presented) An installation according to claim 23, wherein said

processing server is connected to said first remote network via a virtual private network.

26.   (previously presented) An installation according to claim 23, wherein said

processing server is connected to said first remote network via a remote access server.

27.   (previously presented) An installation according to claim 23, wherein:

each said first remote network is chosen from a group comprising private networks, IP

data networks, and public switched telephone networks ; and

each said second remote network is selected from a group comprising IP data networks

and public switched telephone networks.

28.   (currently amended): A method of allocating resources of a local area network to

user terminals via at least one access point to said local area network, said method comprising:

in the case of an attempt at setting up a connection with said local area network by a

terminal of said terminals, classifying said terminal in a first group or a second group according

to whether or not said terminal establishes an encrypted connection with said local area network;

and

allocating resources of said local area network to said terminal as a function of whether it

said terminal is classified in said first group or said second group.,

wherein at least two levels of priority for allocation of resources of the local area network

are allocated to the terminals according to whether the terminals are classified in said first group

or said second group and wherein an allocated priority level is automatically modified as a

function of the available resources of said local area network.

29.   (previously presented) The method according to claim 28, further comprising:

in the event of an attempt by said terminal to set up a connection with said local area

network, determining a MAC address of said terminal, and allocating an IP address to said

terminal.

30.   (currently amended): The method according to claim 29, further comprising:

providing a table containing primary MAC addresses associated with first terminals of

said terminals, said first terminals ~~adapted to~~ exchange data frames encrypted in accordance with

at least one format.

31.   (currently amended): The method according to claim 30, wherein said table

contains secondary MAC addresses associated with second terminals of said terminals, said

second terminals ~~adapted to~~ exchange unencrypted data frames.

32.   (currently amended): The method according to claim 31, further comprising:

making a determination as to whether an extracted MAC address, extracted from a

received frame, is one of said primary or secondary MAC addresses; and

if said determination is affirmative, allocating a primary IP address to the terminal

corresponding to said extracted MAC address ~~so that~~to allow ~~it~~said terminal ~~can~~to set up a

connection with at least one first remote network and one second remote network; and

if said determination is negative, allocating a secondary IP address to the terminal

corresponding to said extracted MAC address, referred to as a third terminal, ~~so that~~to allow said

third terminal ~~can~~ to set up a connection with a least one second remote network.

33.   (currently amended): The method according to claim ~~30~~32, wherein said first

terminals are associated with said at least one first remote network.

34.   (currently amended): The method according to claim ~~33~~32, wherein said second

terminals belong to known users of said at least one first remote network.

35.   (previously presented) The method according to claim 32, wherein:

each first remote network is selected from a group comprising private networks, IP data

networks, and public switched telephone networks; and

each second remote network is selected from a group comprising IP data networks and

public switched telephone networks.

36.   (canceled).

37.   (currently amended): The method according to claim 3628, wherein the primary

MAC addresses and the secondary MAC address in said table are stored in corresponding

relationship to at least one of said priority levels.

38.   (previously presented) The method according to claim 37, wherein said priority

levels comprise :

at least one first priority level allocated to first terminals associated with primary MAC

addresses; and

at least one second priority level allocated to second terminals associated with secondary

MAC addresses.

39.   (currently amended): The method according to claim 38, wherein a third priority

level for allocation of resources of the local area network is allocated to said third terminals

terminal setting up communications that are not encrypted in accordance with said at least one

format and whose MAC addresses are not in said table.

40.   (previously presented) The method according to claim 36, wherein said priority

levels relate at least to a bandwidth. and said bandwidth decreases from the first level to the third

level.

41.   (currently amended): The method according to claim 40, wherein said access

point is sent data representative of said bandwidth assigned to a designated terminal, and said

access point allocates ~~the~~ corresponding resources to said designated terminal.

42.   (canceled).

43.   (currently amended): The method according to claim 28, wherein said local area

network is selected from the group comprising ~~PSTN,~~ PLMN, ~~and Internet public networks,~~

PABX private networks, and private communication gateways.

44.   (previously presented) The method according to claim 43, wherein the PLMN

public networks are mobile networks selected from the group comprising GSM, GPRS, and

UMTS networks.